

# THE TECH

## DAILY

VOL. XXIX. NO. 28.

BOSTON, MASS., SATURDAY, OCTOBER 30, 1909

PRICE ONE CENT

### JUNIORS ELECT COPELAND PRESIDENT

#### Men Prominent In Class And Athletics Chosen For Officers

S. B. Copeland was yesterday elected president of the junior class. He has been connected with many activities, having been on the tug-of-war in his freshman year and again as captain the next year. As class officer he was in his first year on the theatre and auditing committees, and last year treasurer and a member of the Technique electoral board.

The other officers are: L. C. Cooley, vice-president; O. B. Denison, secretary; E. A. Nash, treasurer; M. A. Grossman, clerk; L. G. Fitzherbert and I. W. Wilson, executive committee; J. C. Fuller and C. P. Kerr, Institute Committee; and W. D. Allen, C. P. Eldred, R. H. Gould, J. D. MacKenzie and C. H. S. Merrill, athletic association.

L. C. Cooley was manager of his class relay team both years, and in his second year also on the executive and Technique electoral committees, and at present is athletic editor of Technique 1911, and on the Union committee.

O. B. Denison in his first two years was in the chorus of the Tech Show and wrote much of its music, besides being an associate editor of The Tech, and on Technique electoral committee.

E. A. Nash, after being on his freshman tug-of-war, was in the Show chorus and Technique electoral committee the second year.

Of the other men, Grossman has been two years in Show and tug-of-war, Fitzherbert has been on the athletic committee, football team and Show; I. W. Wilson is business manager of the Tech Show; J. C. Fuller has been a dancer and of the Show chorus and Technique electoral committee and C. P. Kerr was on the relay team and in the Show his freshman year, and in the next year was again in the chorus of the Tech Show, and a member of the Glee Club and Technique electoral committee.

### 1912 RELAY TRIALS

#### Only Twelve Men Picked--Ties To Be Run Off Monday

With a stiff wind blowing on their backs, twenty-two men ran yesterday afternoon for places on the 1912 relay team. Although the wind was on their back, the day was so cold that very poor times were made.

The men ran close and all the times were within two seconds of each other. As this was the case, no very definite team could be picked. Next Monday several men will run off ties to qualify for the last two places and the team.

The twelve who were picked yesterday were: L. B. Walker, E. Managan, S. E. Reed, S. H. Seelye, W. M. Gere, H. G. Greenleaf, L. B. Duke, F. J. Shepard, M. A. Oettinger, J. I. Murray, A. R. Freedman and H. R. Fox.

### EICHORN FOOTBALL CAPT.

At a meeting of the freshmen football team yesterday afternoon, William N. Eichorn was elected captain. Before entering the Institute he was on the Roxbury Latin football team, crew and track team. On the latter, entered the shot-put and the relays.

### ADVANCED COURSES IN MODERN LANGUAGES

#### Lectures On Gothic Architecture Given In French By Mr. Dike

Many of the more advanced courses offered in modern languages at the Institute are elective rather than required. This makes the arrangement of the work of this department a rather difficult task, as the hours of recitation have to be made to conform to the free hours of the students. A longer time than usual has been required this year in getting straightened out, but everything seems at last to be in working order.

Seven students have registered for elementary Italian. This is at present the only course offered in Italian, as interest in this subject seems to be comparatively slight.

There is opportunity for a much more advanced study of Spanish, however, which is taken advantage of by the students. The work in this subject covers three years, comprising courses of elementary, intermediate and advanced nature. The intermediate and advanced courses were formerly required in course NIIIA, but this requirement is no longer in force. The result is that very few students are now taking Spanish, eight being registered in the elementary course, four in the intermediate, and only two in the advanced.

The courses in advanced French and advanced German are very similar. In each subject there are two regular courses requiring outside preparation, IIIA and IIIB, the former extending throughout the entire year and the latter, which is an abridgement of the former extending through the first term only. In addition to these are the courses in French Colloquium and German Colloquium, for which there is no outside preparation. One of the IIIB courses are required of students in course VI, each man further pursuing the study of the language he took in his freshman year. The registration in French IIIB is thirty-two and that in German IIIB forty. In the other courses the registration is naturally much smaller, that in French IIIA being eight, in French Colloquium seventeen, in German IIIA twelve, and in German Colloquium twenty-seven.

In addition to these regular language courses, Mr. Dike is conducting a series of lectures in French on Gothic Architecture. For this there are fourteen students registered.

### WEST ROXBURY COURSE

#### Every Man Urged To Run And Learn Eight-Mile Course

The cross-country men will hold a hare and hound chase over the West Roxbury course this afternoon. Every man who has the least ability as a runner is urged to participate, because this is a good chance to get acquainted with the eight mile course over which the handicap race is held, after the intercollegiate field day. There are three fine cups donated by former cross-country men, for first, second and third prizes. These cups are worth any man's effort.

The regular team candidates will have their work elsewhere, so that a squad can be formed with an easy pace.

The team will leave the Back Bay station at 2:22 P. M.

Brooklyn, N. Y. is to have a new \$15,000,000 subway.

### TECHNOLOGY PROMINENT IN 1915 EXPOSITION

#### Mechanical And Electrical Laboratories Will Be Great Feature

In the Boston 1915 Exposition which opens Monday in the old Art Museum building, Technology will have a place, not the largest in size, but however larger than any other educational institution.

The work of the Institute will be illustrated by enlarged photographs of buildings and equipment. Charts will be exhibited showing the growth of the place in 25 years, in property, equipment, floor space and in faculty. There will also be table exhibits of apparatus and results of research work, students work and thesis drawings. There will always be an Institute graduate in attendance.

As part of the exposition, the Mechanical Engineering laboratories in Engineering and Pierce buildings and the Electrical Engineering laboratory in the Lowell building will be open two nights of each week. Some of the apparatus will be in operation and tests be run on a number of machines. Admittance to this will be by tickets give out at the exhibit space in room No. 23 of the main floor. A number of instructors will be in the laboratories to explain apparatus or conducting tests. At the same time a number of students will act as guides to conduct visitors through the several rooms.

The exhibit is in charge of Prof. Charles F. Park, chairman; Dean Alfred E. Burton and Prof. Harry W. Gardner.

The committee aim by the exhibit in the old Art Museum and the live exhibit in the laboratories to make a showing which will be interesting and impressive. It is hoped that the public may appreciate the possibilities and importance of the work the Institute is doing.

A special circular is being issued for distribution which gives pertinent facts concerning the Institute.

### 1912 VS. EXETER 20

#### Exeter Saves Best Men For Andover Games Next Week

The 1912 team is scheduled to play Exeter this afternoon. It became known yesterday that Coach Johnny Glaze is saving his first team for the Andover game, so the second Exeter team will lineup against the sophomores.

In the Newton game on Wednesday, several of the sophomores were injured so that they will not be able to play today. These men are J. Beale, G. Kelbon and H. McOsker.

The 1912 lineup will be as follows: J. E. Whittlesey, c.; S. R. Robertson, l. g.; W. Shuttleworth, r. g.; M. J. Kimball, l. t.; W. B. Severson, r. t.; B. Torrey, r. e.; S. R. Robinson, l. e.; W. T. Roberts, l. h.; J. W. Raymond, r. h.; W. C. Barnes, f. b.; A. Eicher, q.

The sophomore team averages about 150 pounds, while Exeter comes closer to 160. The sophs have practised every night this week, but only once have enough men been out to make a scrimmage possible.

The Glee and Mandolin Clubs of the University of Minnesota will hold a minstrel show on the first of December.

### SPEAKS ON "BUSINESS CONDITIONS OF TODAY"

#### Fish Deals With Modern Problems--Capital and Labor Must Unite

Frederick P. Fish, a member of the Institute Corporation, was last night the speaker at the second of the Union entertainments. Mr. Fish took as the subject of his talk, "Modern Business Conditions."

The troubles of today are those settled around business, and the great trouble is the complexity of business conditions. In early times hunting and fishing were the leading activities, then agriculture commenced and with that was the development of the simple arts of working in copper, brass and wood. Each man worked for himself.

The discovery of steam, however, changed these conditions; the factory system was originated and developed; transportation was made cheaper and quicker. But the real potential capacity of steam was not seen till after the Civil War. Then it was that the Union Pacific Railroad was built, electricity was developed in many ways, steamship lines increased, and machinery improved.

These things all lead to the increase of business and especially of manufacturing. To create great industries requires a large amount of capital; to decrease the cost of a product, the quantity must be increased. Competition became great and monopolies sprang into existence. These monopolies were financially backed many times by people who had no interest in the business except the income they received. This led to the gradual separation of employee and employer, the uniting of whom is a problem of today.

Corporations, monopolies or trusts, are self-perpetuating bodies which act as a unit. Although corporations ruined the small dealer by putting him out of business, they have done some good in decreasing the cost of materials. Labor and capital are now entirely out of contact and are each on a cold business basis with the other. The old feeling of friendliness between the two must be regained by the aid of the sensible and reasoning men in both organizations.

Conditions have developed in the last fifty years entirely out of proportion to the development of the people and we must adapt ourselves to the conditions of today in order to make them better.

In closing, Mr. Fish said that Tech men will have opportunity to solve these questions by dealing with them as partisans and by thinking sensibly on the subjects.

### 1912 CHEER LEADER

#### Theatre Committee Had To Share Seats With Herrick

At the 1912 class meeting in Huntington Hall yesterday noon, Clarence A. Stewart was unanimously elected cheer leader. He is to choose two assistant and lead cheers at the Field and at the Colonial Theatre in the evening. Stewart has been a member of the Tech Show and of the Glee Club.

H. D. Kemp of the theatre committee reported that as the Colonial was under agreement to furnish seats to Herrick

(Continued on page 2.)

## THE TECH.

Published daily except Sunday during the college year by students of the Massachusetts Institute of Technology.

General Manager,  
R. H. Ranger 1911

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### Saturday Issue,

A. L. Fabens 1910, Associate Editor.

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BOSTON, MASS., OCTOBER 30, 1909.

It is with the greatest regret that The Tech announces the resignation of Harold Martin Davis 1911 from the news board on account of pressure of studies. Under his guidance the news end of the paper has advanced out of that period of uncertainty which attended its establishment as a daily. The Tech extends heartfelt thanks to him for the great service he has rendered, and hopes it has repaid by experience it has offered.

The Tech announces the appointment of David St. Pierre Gaillard 1911, editor in chief; Andrew L. Fabens 1910, Institute editor, and William J. Orchard 1911, associate editor.

## 1913 RELAY TRIALS

### Freshman Team To Be Picked This Afternoon

This afternoon at the Field the 1913 relay team will be picked. The men to run are those picked from their showing in the preliminaries last week. These men are: Haynes, P. M. Hamilton, Heron, Welch, Gentner, Crocker, Cairns, Brewster, Trull, T. Watson, W. Conant, Burnham, Balke, B. Atwater, H. D. Peck, Whitehead, Pendleton, Currier.

Since these men averaged three-fifths of a second faster in the preliminaries than any former freshmen team, the trials today are expected to result in some fast time.

The men will run singly and against time. The men running the twelve fastest two twenties will constitute the 1913 relay team. The two men making the next best time will be the substitutes. Everybody is expected to come under twenty-six seconds.

### CALENDAR.

Saturday, October 30.

2:00 P. M.—Finals—1913 Relays.  
2:22 P. M.—Hare and Hounds at West Roxbury. Leave Back Bay.  
2:00 P. M.—1912 Football vs Exeter, at Exeter.  
2:00 P. M.—Orchestra Rehearsal in Union.

Monday, November 1.

4:15 P. M.—Relay Practice at Field.  
4:15 P. M.—Tug-of-War at Gym.

Despite the fact that the year started with a \$6,000 deficit, the Columbia Crew Association finished the season with a balance of \$462.20.

## LANZA ON CONCRETE

### Reads Paper Before Boston Society Of Civil Engineers

At the recent joint meeting of the Boston Society of Civil Engineers and the American Society of Mechanical Engineers, Prof. Lanza and Mr. L. S. Smith 1900, presented a paper on "Stress in Reinforced-Concrete Beams, Comparison of experimental results with results obtained from the use of three theories of distribution of stress." The object was to compare the position of the neutral axis, the stress in the steel and in the concrete, and the deflection as obtained in practice with that calculated. The comparisons were made upon eleven beams, five of which had been tested here, and the remainder at the University of Illinois. Steel bars had been imbedded longitudinally in the lower portion and loads applied at two points above.

There are three theories, one that concrete will bear no tension and that under compression it follows Hooke's Law, another differing only in the method of calculating compression, and the third that, whereas concrete without rods will not bear tension, reinforced concrete will not crack under considerable loads. Formulae were deduced and the results compared with the tests.

They concluded that the observations made thus far are not sufficient to furnish the means for determining the actual distribution of the stresses and hence for determining the actual distribution, and for the deduction of reliable formulae for computation of action under given loads. The present theories serve only as working hypotheses.

The third theory gave for the most part the best results, and it seemed hopeless to obtain a reliable deflection formula unless some such theory is used. The complexity was therefore not so great when designing a beam as when calculating stress in those already in use.

This paper will be presented again before the November meeting of the American Society of Mechanical Engineers in New York.

## 1912 CLASS MEETING

(Continued from page 1.)

and some of the Boston hotels, the committee had not obtained the orchestra seats in the center in front of row I. If, however, the men will not purchase tickets of outsiders at a premium and the regular patrons stay away from this special night, the committee will be able to obtain the best seats. The manager assured the committee that he would stand for any program which did not mean injury to actors or property.

At the close of the meeting it was voted to accept nominations for baseball managers until Saturday, Nov. 6th.

Harry Thaw's contention that he was illegally committed to the Matteawan State Hospital for the criminal insane, following his acquittal on the charge of murdering Stanford White in New York city, was overruled yesterday by the Court of Appeals.

Attendance at chapel is compulsory this year at Pennsylvania.

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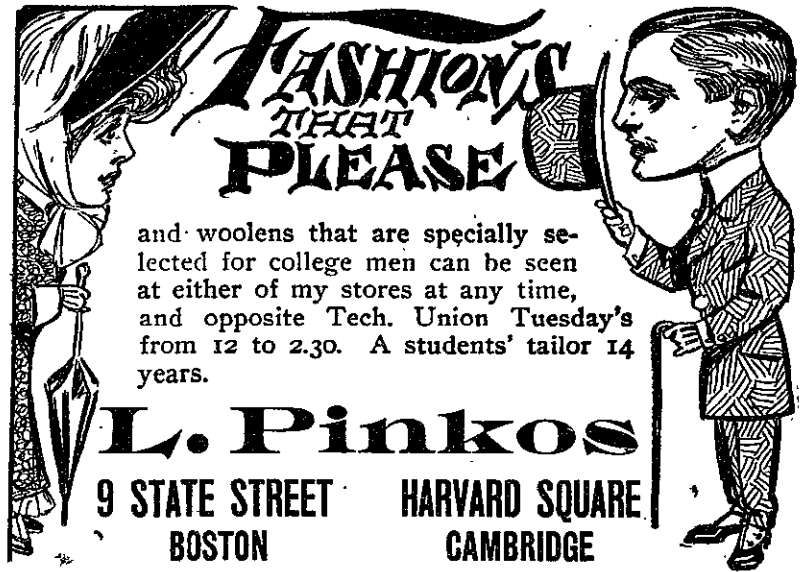
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## MUSICAL CLUB CONCERT

Last night the musical clubs opened their season with a concert at the Hotel Vendome. Two selections were rendered by each club in addition to several solos and duets by members of the clubs. Due to the earliness of the season no encores were given. The pieces rendered were "Tis Morn" and "Lady Cloe" by the Glee Club, "Yankee Dandy" and "The Pied Piper" by the Mandolin Club and the "Butterfly Waltz" and "Chinese-American March" by the Banjo Club. About fifty members of the clubs were present.

## BOOKS DUE NOV. 1ST

Two days more will see the close of the book competition for Tech Show 1910. All books not handed in by four o'clock Monday, Nov. 1, will be thrown out of the competition. If for any reason the author cannot get his book in by that time he should see the stage manager, K. Greenleaf 1911, immediately. Envelopes bearing numbers may be procured at the Cage. The author is to put his name in the envelope and seal it. He will put the same number on his manuscript, and leave both at the Cage for K. Greenleaf. Several books have been handed in already and some of the envelopes are missing. A large number of books are expected at the last moment.

The Show Buzz Wagon is filling up rapidly and all desirous of obtaining a ride on Field Day are urged to apply immediately.

## EXCHANGES

Cornell has had six new coaches at work developing its football team this week.

Jacques has been appointed captain of the Harvard cross-country team, but as he will not be able to run, E. M. Veits will serve as acting captain.

Last week a number of Princeton graduates met and formally organized the Princeton Graduate Students' Association.

Upperclassmen at the University of Michigan have orders to confiscate the headgear of any freshman appearing on the street with any but the official freshman hat.

The editor of the Pelican, the University of California comic monthly, has been suspended on the ground that the material used in the paper would bring discredit to the good name of the University.

During the Minnesota Carnival last week, the Minnesota Daily published a special eight-page "Carnival Extra" with a tri-color cover.

Moll, the sensational quarterback of the Wisconsin team, who was recently suspended, has been reinstated by the faculty.

The Yale Mission College in China has just completed a successful year. Yale men contributed \$13,061 to its support.

The University of California held a training table informal dance for the members of the football squad.

Undergraduates at Bowdoin College have started a campaign to obtain part of the million endowed to the institution this year for a new gymnasium.

## NEWS FROM THE FIELD

### Strenuous Practice For All Field Day Teams

The Field Day candidates have been busy this week. Both football teams have played games and the 1912 relay team had a meet.

Coach Matters has spent the week polishing off the rough edges of the 1913 football team. The practice game with Rindge School, Thursday, brought out the strong defense and weak offense of the team. Today, for the final game before Field Day the freshmen team will lineup against Lowell Textile's football team. This is the team that defeated 1912 by the score of 15-0.

The 1912 football team showed their quality on Wednesday by defeating Newton High 11-0. This afternoon the sophs will go to Exeter to play the Phillips Exeter Academy team. The game will show to some extent how the Field Day teams compare with the freshmen teams of Harvard and Yale. The Harvard freshmen beat Exeter 10-0. It will probably be the hardest game the 1912 football team has ever played.

The 1912 relay team finished its week's work yesterday with the time trials. The men are not so confident of victory on Field Day as they were before the race with English High on Tuesday. In this race the twelve sophs took 5 minutes and 10 seconds to run a mile and a half, and showed need of practice in passing the flag. But if 1912's courage was never known to fail.

The rumors from the 1913 relay camp are very encouraging to the freshmen. When Coach Kanaly is asked who is going to win on Field Day, he says, "Well, I don't know. The freshmen have a pretty fast team there." With Coach Kanaly doing all he can and the 1911 men doing some more, 1913 hopes to turn out a winning team.

## CURRENT EVENTS

An earthquake shock was felt in northern California and southern Oregon. The damage is said to be nominal.

The British House of Lords has passed the third reading of the Irish land bill in greatly amended form. The Earl of Crewe, Secretary for the Colonies, in behalf of the government, protested against the amendments and expressed doubt whether the House of Commons would accept them.

The Y. M. C. A. building fund passed the \$400,000 mark yesterday, \$37,647 being reported as the day's receipts. This leaves the association a task of raising \$95,000 in the remaining two days of this month.

A large steamer is reported ashore on the Old Proprietor Ledge, off Seal Cove, Grand Manan. It is thought to be the Donaldson Line steamer Hestia, which left Glasgow, Oct. 9, for St. John and Baltimore.

An actual revolt in the navy has taken place in Greece. The band of naval officers which on Wednesday quit the capital and withdrew to Salamis, an island ten miles to the west, seized the arsenal there yesterday and are now intrenched. They met no opposition. The rebels are led by Lieutenant Tibaldos, and are reported to number three hundred men. The Government has proclaimed Tibaldos a traitor and ordered his arrest by the military.

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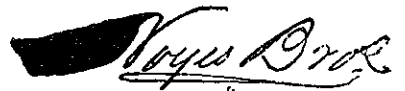
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### GENERAL NOTICES.

#### GOTHIC ARCHITECTURE.

Lectures on this subject (Course 250)  
are given provisionally by Mr. Dike on  
Tuesdays, from 5 to 6, in room 23  
Lowell.

#### FRENCH II, Section 5, 15 a. b.

On Wednesday this section will re-  
cite hereafter in room 31 Lowell, in-  
stead of in room 29 Lowell.

**GOLFERS, ATTENTION!** These  
will be a meeting of the Golf Club at  
1 P. M., Monday in 22 Rogers, to dis-  
cuss arrangements for holding a tourna-  
ment. 27, 28, 29

Men selling Tech Night theater tick-  
ets are now in all corners and years.  
Get your exchange ticket early.

#### 1912 THEATER COMMITTEE.

Handicap hare and hounds run over  
cross-country course in West Roxbury,  
Saturday afternoon.

**FOUND.**—Many books and other val-  
uable articles found about the Institute  
remain in The Tech office, unclaimed  
by their owners, whose names were pub-  
lished in a recent issue of The Tech.  
It is desired that these men call and  
claim their property.

#### 100-WANTED, TECH MEN—100

To sing Tech songs at Food Fair,  
Saturday night. Tickets will be given  
away by J. S. Martin, Room A, Union,  
today, 4-6 P. M.

1911-1910.—Juniors and Seniors can  
obtain theatre tickets for Tech Night  
from D. E. Bent, in Rogers' corridor,  
daily from 1:00 until 1:10.

#### THIRD YEAR APPLIED MECHANICS.

First exercise for Course X. Monday,  
Nov. 1, at 10 o'clock in Room 21, Eng.  
A. Bring Lanza's Applied Mechanics.  
W. A. JOHNSTON.

1913.

Relay trials, Saturday afternoon at  
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will return to any certificate holder, upon sixty days' notice, the  
amount of his investment or any part of it, should he desire to  
withdraw same at any time before maturity.

The total issue is only \$25,000, each certificate being for  
\$25. For the present, with each \$25 certificate is given one  
share of 8 per cent. preferred stock, par value \$10; and with each  
\$100 purchase five shares of preferred are given. This unusual  
opportunity really brings the net return up to about 12 per  
cent., with the prospect of selling the preferred for nearly  
enough to pay for the whole investment. We make this offer  
so that it will not be necessary for this announcement to appear  
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